

RUBTSOV, V.K., gornyy inzh.

Preventing failures in short-delay blasting with a detonating
fuse. Gor. zhur. no.7:43-47 JI '62. (MIRA 15:7)

1. Proizvodstvenno-eksperimental'noye upravleniye Vsesoyuznogo
tresta po burovym i vzryvnym rabotam, Moskva.
(Blasting)

RUBTSOV, V.K., kand. tekhn. nauk

Certain characteristics of rock shattering by blasting with
elongated charges. Gor. zhur. no.9:34-38 S '64. (MIRA 17:12)

1. Tsentral'nyy nauchno-issledovatel'skiy gornorazvedochnyy
institut tsvetnykh, redkikh i blagorodnykh metallov, Moskva.

RUBTSOV, V.K., kand. tekhn. nauk

Study of the structural features of a rock massif, in connection
with blasting operations. Vzryv. delo no.53/10:31-36 '63.
(MIRA 16:8)

1. Proizvodstvenno-eksperimental'noye upravleniye Soyuzvzryvproma.
(Joints (Geology)) (Blasting)

DAVYDOV, Stepan Aleksandrovich; RUBTSOV, Vladimir Konstantinovich;
DEMIDYUK, G.P., doktor tekhn. nauk, retsenzent; MELIKHOV,
I.D., ved. red.

[Multiple-row blasting] Mnogoriadnoe vzryvanie. Moskva,
Nedra, 1965. 94 p. (MIRA 18:6)

KUTUZOV, B.N., kand. tekhn. nauk; RUBTSOV, V.K.

Types of piece-size curves of blasted rock. Vzryv. delo
no.53/10:118-123 '63. (MIRA 16:8)

1. Moskovskiy institut radioelektroniki i gornoy elektromekhaniki
(for Kutuzov). 2. Proizvodstvenno-eksperimental'noye upravleniye
Soyuzvzryuproma (for Rubtsov).
(Blasting)

RUBTSOV, V.K., kand. tekhn. nauk

Determination of the shape of pieces of rock from their granulometric composition. Vzryv. delo no.53/10:131-136 '63. (MIRA 16:8)

1. Proizvodstvenno-eksperimental'noye upravleniye Soyuzvzryvproma.
(Granular materials)

BOGOLYUBOV, G.V.; RUBTSOV, V.K.

Hydraulic device for slow motion. Prib. i tekhn. eksp. 7 no.3:
197 My-Je '62. (MIRA 16:7)

1. Moskovskiy inzhenerno-ekonomicheskiy institut.
(Oil hydraulic machinery)

RUBTSOV, V.K., inzh.

"Energy of pressure waves in breaking rocks by blasting" by A.N. Khanukaev; "Blast waves in soils" by G.M.Liakhov, G.I. Pokrovskii. (MIRA 16:4)
Gor. zhur. no.3:76-77 Mr '63.

1. Proizvodstvenno-eksperimental'noye upravleniye Vsesoyuznogo gosudarstvennogo tresta po provedeniyu burovzryvnykh rabot, Moskva.

RUBTSOV, V.K.

Use of the KZDSh-58 relay in the Sibay Mine. Vzryv. delo
no.48/5:108-111 '62. (MIRA 15:9)

1. Proizvodstvenno-eksperimental'noye upravleniye tresta
Soyuzvzryvprom.
(Sibay mine—Electric relays) (Blasting)

S/120/62/000/003/047/048
E194/E455

AUTHORS: Bogolyubov, G.V., Rubtsov, V.K.

TITLE: A hydraulic device for slow displacement

PERIODICAL: Priory i tekhnika eksperimenta, no.3, 1962, 197

TEXT: Steady movements at slow rates between some fractions of a millimetre and millimetres/second are required in a number of processes, such as growing single crystals and zonal melting. A suitably uniform movement has been obtained with a piston and oil cylinder. The object that is to be moved is attached to the weight-loaded rod of a piston. Both ends of its cylinder are closed and are connected by an external pipe with control valve. Adjustment of the valve regulates the rate of flow from the lower to the upper part of the cylinder and hence the rate of travel. One device that has been constructed has a rate of travel between 10 and 200 mm/min with a stroke of 240 mm. There are 2 figures.

ASSOCIATION: Moskovskiy inzhenerno-ekonomicheskii institut
(Moscow Institute of Engineering-Economics)

SUBMITTED: September 27, 1961
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RUBTSOV, V.K., inzh.; BOROVY, L.Ye., inzh.

Some tasks of the designing of enterprises in the oils and fats
industry. Masl.-zhir. prom. 27 no.11:15-19 N '61. (MIRA 15:1)
(Oil industries--Equipment and supplies)

RUBTSOV, V.K., inzh.

Safe methods for the installation of detonating cord circuits.
Bezop.truda v prom. 6 no.4:29-31 Ap '62. (MIRA 15:5)
(Blasting--Safety measures)

RUETSOV, V. K.

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SOV/6098

PHASE I BOOK EXPLOITATION

Assonov, V. A., and L. A. Paporotskiy, Resp. Eds.

Novoye v sredstvakh i sposobakh vzryvaniya (New Developments in
Blasting Means and Methods). Moscow, Gosgortekhzdat, 1962.
124 p. (Series: Vzryvnoye delo; Sbornik no. 48/5) Errata
slip inserted. 3000 copies printed.

Sponsoring Agency: Nauchno-tekhnicheskoye gornoye obshchestvo.

Ed. of Publishing House: A. Ya. Kostom'yan; Tech. Eds.: L. I.
Minsker and G. M. Il'inskaya.

PURPOSE: The book is intended for mining engineers, workers
in scientific research and planning organizations, and also
for teachers and students of mining and technical schools.

COVERAGE: This collection of articles describes new blasting
means and methods, means of protecting electric detonators
from stray currents, and improved methods of short-delay
detonation.

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New Developments in Blasting Means (Cont.)

Gorbacheva, Ye. P. Assembling an Electric-Detonating Network for Blasting Nondimensional Rock	98
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* Rubtsov, V. K. Introduction of the K3-58 Relay at the Sibay Mine	108
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Journal Decisions for 1960-1961 of the Gosgortekhnadzor RSFSR [Komitet po nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru pri	

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RUBTSOV, V.K., inzh.

Visible cracking of the surface of a massif being blasted.

Izv.vys. ucheb.zav.; gor. zhur. 7 no.3:96-101 '64
(MIRA 17:8)

1. Proizvodstvenno-eksperimental'noye upravleniye Soyuz-
vzryvproma.

LEONAS, V.B.; RUBTSOV, V.K.

Selector for investigating molecule velocity. Prib.i tekhn.eksp.
no.2:115-118 Mr-Ap '60. (MIRA 13:7)

1. Fizicheskiy fakul'tet Moskovskogo gosudarstvennogo universitets.
(Molecular beams--Measurements)

YEROFEEV, V.I.; RUBTSOV, V.K.; USAGIN, S.I.

New demonstration apparatus. Usp.fiz.nauk 66 no.3:519-521 N '58.
(MIRA 12:2)

(Waves)

(Physical instruments)

RUBTSOV, V.K., student IV kursa

Calculating charges for loosening the ore. Nauch.rab.stud.
GHSO MGI no.5:55-67 '57. (MIRA 11:11)
(Mining engineering)

10(4)
AUTHORS: Yerofeyev, V. I., Rubtsov, V. K., SOV/53-66-3-5/7
Usagin, S. I.
TITLE: A New Demonstration Device (Novyy demonstratsionnyy pribor)
PERIODICAL: Uspekhi fizicheskikh nauk, 1958, Vol 66, Nr 3, pp 519-521(USSR)
ABSTRACT: In the present paper the authors give the scheme of and describe a device used for the demonstration of wave phenomena on a screen. The device was developed by P. N. Lebedev and I. F. Usagin (cf. Ref 1). It is used for the demonstration of the following wave-phenomena: a) production and propagation of plane and circular waves, b) refraction of waves on the boundary of two media, c) reflection of waves on plane and spherical surfaces. Figure 1 shows a photograph of this device. It consists essentially of a trough containing the liquid, and electromagnetic vibrator, and a projecting-system. The trough has a glass bottom; a projection lamp of the type K-22 is used as a light source. A short description of the device is given. Figure 2 shows a scheme of the projection order, figure 3 is a graphical drawing of one of the two commutators, and figure 4 shows the electrical wiring scheme. A UMT-21 type motor is used. Rotational speed is controlled

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A New Demonstration Device

SOV/53-66-3-5/7

by means of a rheostat ($R = 400$ Ohms). The maximum frequency of the vibrator is 2000 vibrations per minute. There are 4 figures and 1 Soviet reference.

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AUTHORS: Miryasov, N. Z. and Rubtsov, V. K. SOV/120-59-5-41/46

TITLE: A Laboratory Electromagnet

PERIODICAL: Pribery i tekhnika eksperimenta, 1959, Nr 5,
pp 142-143 (USSR)

ABSTRACT: The FL-1 electromagnet is a universal laboratory electromagnet. A sectional drawing of it is shown in Fig 1 in which 1 is the yoke cast from Armco iron. The yoke has holes with rods (also made from Armco iron) tightly pressed into them. The ends of these rods form the magnet gap. The gap between the pole pieces can be between 0 and 100 mm. The gap can be adjusted with the aid of the flywheel 3. A hole is drilled right through the rods (16 mm dia.). The coils 5 are wound with the PBD wire having a square cross-section of 2.44 x 2.44 mm. Fig 2 shows the dependence of the field intensity on the magnetizing current for different values of P and ϕ (indicated in Fig 2). Other parameters of the magnet are as follows: diameter of the movable rods 122 mm, number of windings 5400, resistance of the coil 16.8 Ohm, power consumption at 220 V 3 kW, overall size 420 x 625 x 1160 mm³, overall height 900 kg. ✓

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A Laboratory Electromagnet

SOV/120-59-5-41/46

There are 3 figures.

ASSOCIATION: Fizicheskii fakul'tet MGU (Department of Physics,
Moscow State University) ✓

SUBMITTED: August 23, 1958

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RUBTSOV, V.K.

Trends in planning research for the oils and fats industry for
the years 1959 through 1965. Masl.-zhir. prom. 24 no. 7:21-26 '58.
(MIRA 11:8)

(Oil industries)

RUBTSOV, V.K., student 5-go kursa

Calculating blasting charges considering the desired degree of
ore breaking. Nauch. trudy MGI no.22:21-26 '57. (MIRA 11:9)
(Mining engineering) (Blasting)

RUBTSOV, V.K.; VAYNTSVAYG, S.K.; VOLCHEK, L.S.

~~Standard storages for oilseeds.~~ Masl.-zhir. prom. 22 no.7:
13-14 '56. (MIRA 9:12)

1. Giprozhir. (Oilseeds--Storage)

KURMANOV, M.M.; RUBTSOV, V.K.
~~SECRETARY OF THE~~

Improvement of boring and blasting operations and potentialities
for cost reduction in quarries. Gor.zhur. no.10:75 0 '60.

(MIRA 13:9)

1. Podzemno-ekspluatatsionnoye upravleniye Soyuzvzryvroma,
Moskva.

(Quarries and quarrying)

RUBTSOV, V.K., gornyy inzhener

Features of shattering fractured massifs by blasting.

Vzryv. delo no.50/7:114-121 '62. (MIRA 15:9)

1. Proizvodstvenno-eksperimental'noye upravleniye Soyuzvzryvproma.
(Blasting)
(Rocks--Testing)

RUBTSOV, V.K., gornyy inzh.; AZARKOVICH, A.Ye., gornyy inzh.

Study of the action of explosions in the heart of a massif during
multitrow blasting. Gor.zhur. no.2:41-42 F '63. (MIRA 16:2)

1. Proizvodstvenno-eksperimental'noye upravleniye Vsesoyuznogo
gosudarstvennogo tresta po provedeniyu burovzryvnykh rabot (for
Rubtsov). 2. Tsentral'nyy nauchno-issledovatel'skiy gornorazve-
dochnyy institut tsvetnykh, redkikh i blagorodnykh metallov,
Moskva (for Azarkovich).

(Elasting)

S/272/63/000/001/006/006
E194/E155

AUTHORS: Rubtsov, V.K., and Gorazdovskiy, T.Ya.

TITLE: A high-temperature X-ray chamber

PERIODICAL: Referativnyy zhurnal, otдел'nyy vypusk, Metrologiya
i izmeritel'naya tekhnika, no.1, 1963, 113-114,
abstract 1.32.763. (Tr. N.-i. i eksperim. in-ta
podshipnik. prom-sti, 1 (21), 1960, 155-167)

TEXT: The chamber described is type PPK 3 (RVKE), for high-speed X-ray photography of polycrystals and intended mainly for physical-technical investigation of high-temperature steels. Chamber type PPK 3 (RKKE) is a development of chamber type PPK 3T -600 (RKET-600); it can produce X-ray photographs at temperatures between room and +1000°. The actual chamber is on three levelling screws; a frame carries a film holder, and an electric motor oscillates the specimen. A heater, a magnetic coupling, and a mechanism for setting the angle of focusing are provided. The frame of the chamber is a soldered brass box (with lid) consisting of two side pieces whose front ends are milled into a cylinder. The front part of the chamber is soldered to

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A high-temperature X-ray chamber

S/272/63/000/001/006/006
E194/E155

the ends with a slot which is the screen for the film holder. The slot, 7 mm wide, is covered on the outside with aluminium foil secured by adhesive. In addition, the foil is pressed on by a special additional sector (with slot) which also covers the film holder. Two terminals bring connections through the rear wall of the chamber to the heater and thermocouples. Windows are cut in the side wall for fixing on the one hand the bosses of the magnetic coupling and on the other bosses for fixing a small wheel with a dial by which the heater can be turned to the required angle. A union for extracting air is built into the chamber and there is an inlet in its roof. The film holder, located below the primary beam, is designed for 7 frames (each 7 mm wide) and can record angles of 88 to 60°. A handle brought out below the base is used to move the film holder in guides to change frame. A resistive heater within the chamber can be set at the necessary angle of focus by a mechanism brought to the outside, and can be oscillated by 180° around an axis perpendicular to the plane of the specimen by an electric motor type CД-2 (SD-2) operating through a magnetic coupling. The temperature on the specimen is maintained by an electric thermostat of the customary

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A high-temperature X-ray chamber

S/272/63/000/001/006/006
E194/E155

contact-millivoltmeter type. X-rays direct from the tube focus reach the plane of the specimen surface in a broad band and on reflection from the atomic planes of the crystals are focused on the photo film which is arranged on the arc of a circle whose center lies on the surface of investigation of the specimen. Focusing is ensured by making the investigated plane surface of the specimen a tangent to the cylindrical surface which passes through the focus of the tube, the specimen, and the line recorded on the film. The breadth of the X-ray line is approximately 0.3 - 0.4 mm. The exposure is several minutes. The parameters of the instrument are: distance from center of specimen to film 114.59 mm; distance from tube focus to center of specimen 174.59 mm; distance from tube focus to film 60 mm. Stability, uniformity and measurement of temperature are discussed, also the thermal insulation of the specimen and heater. Diagrams are given of the X-ray optical circuit and of displacement of the specimen. The conditions of focusing are calculated. Preliminary tests on the chamber showed that it operated reliably. 6 figures.

[Abstractor's note: Complete translation.]

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Reel # 474
Rubtsov, V.K.

END